

MIGUEL STEVEN NGUYEN

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EDUCATION

Tecnologico de Monterrey

B.S. in Mathematics and Data Science - GPA: 96.55

Graduating July 2025

Guadalajara, Jalisco

WORK EXPERIENCE

Systems Testing Intern

Oracle

July 2023 – Present

Guadalajara, Jalisco

- Leveraging the power of Oracle APEX to create meaningful dashboards for monitoring time critical information.
- Maintaining robust Java based backends to facilitate testing, patching, and shipping of Oracle DB.

Webmaster

Changemaker Fest

August 2022 – November 2022

Guadalajara, Jalisco

- Led team of 12 to build and run the website for the Changemaker Fest social event using Wordpress.
- Designed registry to keep track and maintain contact with 1000+ registered attendees.
- Constructed festival agenda to manage 25+ unique events running simultaneously.

PROJECTS

Linux Dotfiles | Linux, Git, Github

May 2019 – Present

- Compiling a collection of various custom configuration files for different programs running on my current Linux distribution.
- Implementing best practices for version control and file management.

Injection Moulding Process Optimization | Python, Pandas, Numpy

September 2023

- Built from scratch multiple different linear regression models to predict the behaviour of plastic injection machines based on 30+ different variables.
- Wrangled log files with over 10 million separate entries, in order to facilitate the data reading process.
- Designed a robust system of operation recommendations using various data analysis techniques, to reduce process cycle times by 5%.

Song Fingerprinting and Recognition | Python, Numpy, Scipy, Matplotlib

November 2022

- Implemented a Python notebook to generate unique fingerprints from a selection of songs, in order to identify said songs from audio recordings.
- Used scipy to create the song IDs by means of Fourier Transformations, and Matplotlib to visualize the results.

LEADERSHIP AND VOLUNTEERING

Club de Algoritmia GDA

Board of Directors

June 2023 – Present

Guadalajara, Jalisco

- Running the school's largest computer science club, with 500+ members.
- Guiding students from all years in their professional journeys by organizing workshops, holding coding sessions, and hosting events for hiring companies.

CERTIFICATIONS

Oracle APEX Cloud Developer Certified Professional | Oracle University

October 2023

SKILLS

Languages: Python, Java, LaTeX, Bash, SQL, C++, Haskell

Libraries: Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Scipy, TikZ, Pgfplots

Development Tools: Git/Github, Jupyter Notebooks, Oracle APEX, GNU/Linux, Vim/Neovim